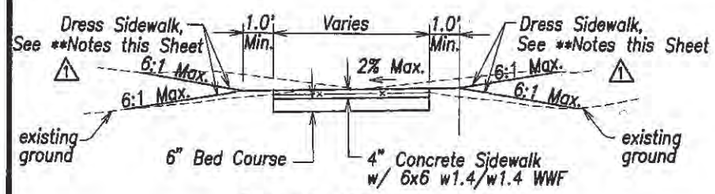
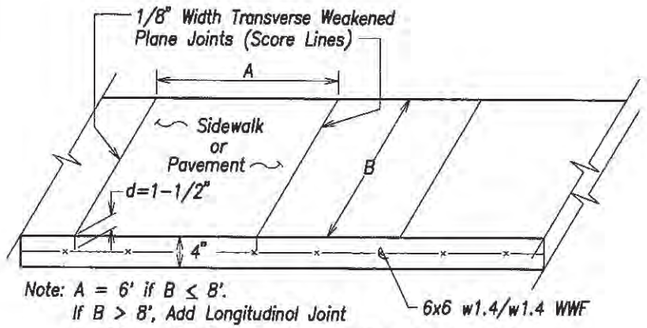
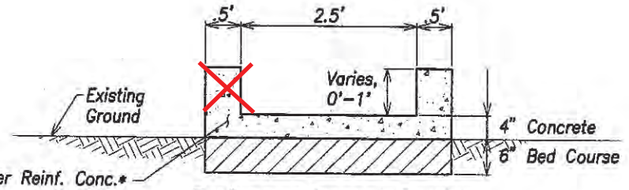
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	11	88



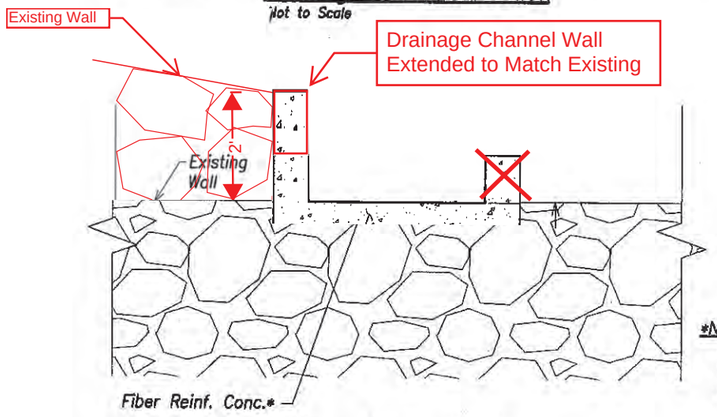
Concrete Sidewalk Detail
Not to Scale



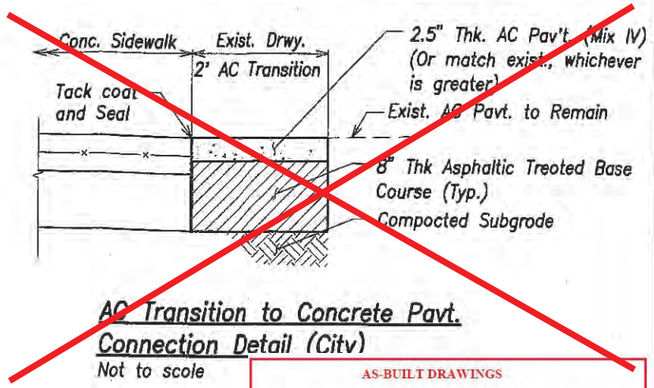
Sidewalk Contraction Joint Detail
Not to Scale



Drainage Channel Section
Not to Scale



Drainage Channel Outlet
Not to Scale



AC Transition to Concrete Pavt. Connection Detail (City)
Not to scale

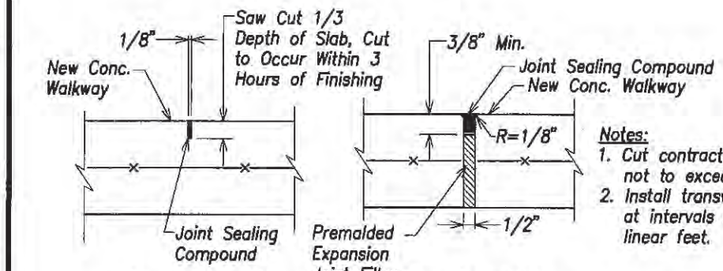
*Note:
7.5 lbs/cy of Strucx 90/40 Synthetic Fiber or Accepted equal shall be added to the concrete.

AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

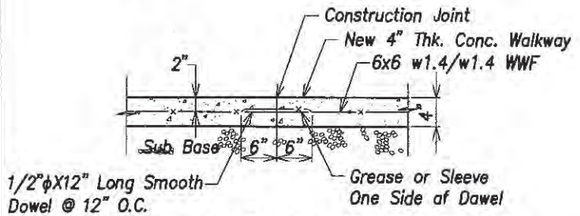
DATE: 07-29-2021



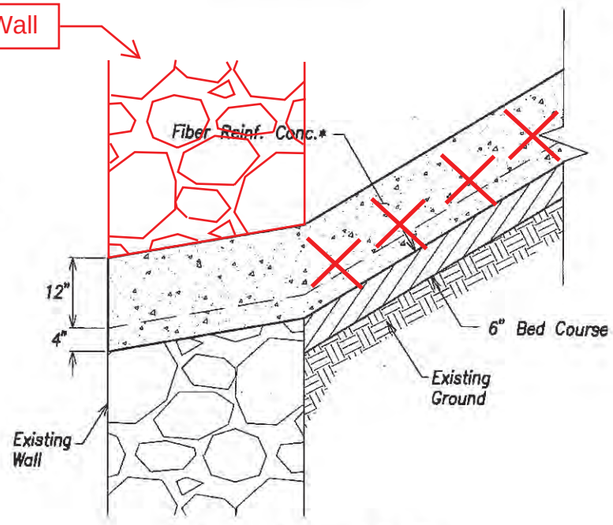
Contraction Joint — Expansion Joint

Walkway Contraction And Expansion Joints
Not to Scale

Notes:
1. Cut contraction joints at spacing not to exceed walkway width.
2. Install transverse expansion joints at intervals of approximately 100 linear feet.



Transverse Construction Joint Detail
Not to Scale



Drainage Channel Profile
Not to Scale

**Notes:
1. Dressing of sidewalk shall consist of clearing, grubbing, grading, reshaping ond compacting the area adjacent ta the impravement with topsoil as shawn on the plans and/or as directed by the Engineer. This work shall be considered incidental to Concrete Sidewalk pay item.
2. Transverse and longitudinal weakened Plane Joints for sidewalk shall be considered incidental to Concrete Sidewalk pay item.
3. Installatian of dowels and tie bars, including drilling and epoxy grout shall be incidental ta Concrete Sidewalk pay item.

DATE	REVISION
5/17/17	⚠1 Addendum 1: Added notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A-01-13

Scale: As Shown — Date: April 24, 2017

SHEET No. C4.1 OF 18 SHEETS

STACY K. YOKOOJI ARMSTRONG — LICENSED PROFESSIONAL ENGINEER — No. 8983-C — HAWAII, U.S.A.

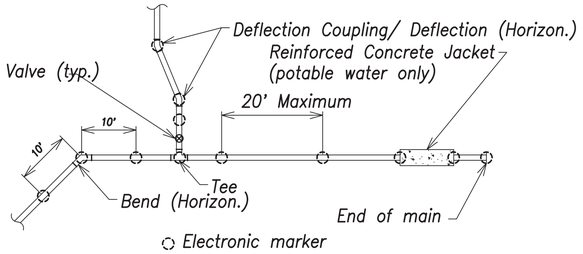
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE OF LICENSE EXPIRY

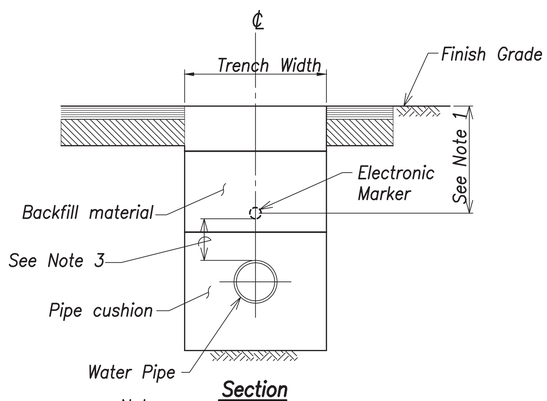
ADD. 11

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	C.O. ADD. 11 S-2	36



Plan



Section

Notes:

1. Install electronic marker over center line of pipe at a minimum depth of 2 feet and a maximum depth of 3 feet from finish grade.
2. Install trench backfill and pipe cushion material in accordance to the plans and specifications.
3. Install electronic marker at a minimum clearance of 6–inches, where possible. Install markers on or above concrete jackets.

Typical Electronic Marker Installation for Water Lines

Not to Scale

Trench Backfill Material "A"

1. Sand Equivalent (S.E.) > 20
2. 8" Maximum lifts
3. 95% Compaction

Trench Backfill Material "B"

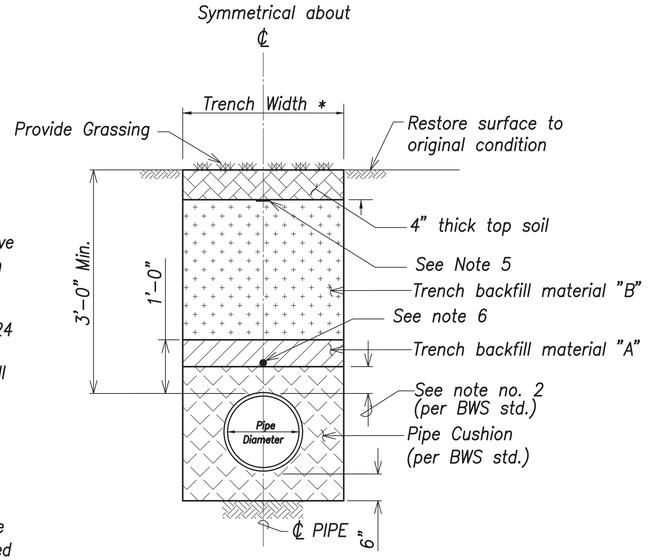
1. S.E. must not be less than the area being filled and in no case shall the s.e. be < 2 regardless of where it is used
2. 8" Maximum lifts
3. 95% Compaction

Notes:

1. Pavement structure shall be equal or better than existing in thickness and quality.
2. The pipe cushion shall extend 6 or 12 inches (per BWS Standard) above the pipe or to two (2) feet above the water table, whichever results in a greater thickness.
3. Soft or loose soils encountered at the bottom of trenches shall be over–excavated to expose firm natural material or to a maximum of 24 inches and backfilled with No. 2 or No. 3B Fine gravel that is encapsulated with geotechnical permeable separator. This material shall be considered as additional to the recommended six (6) inches below the pipe.
4. Conforming to ASTM c–33, size 67, (No. 3B Fine), encapsulated with geotechnical permeable separator, until one foot above the water level. Overlap the geotechnical permeable separator over the top of the size 67 gravel for the width of the trench before pouring the CLSM.
5. Over centerline of the pipe and below the base course along the entire length of trench. Tape should be marked with "Caution Water line buried below". Payment for the furnishing and installation of the warning tape shall be incidental to the unit price bid for the pipe.
6. Electronic marker, see detail, left.

Subbase Course

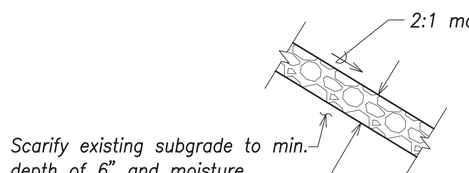
1. S.E. > 25
2. 8" Maximum lifts
3. 95% Compaction



Existing Unpaved Shoulder Section (State)

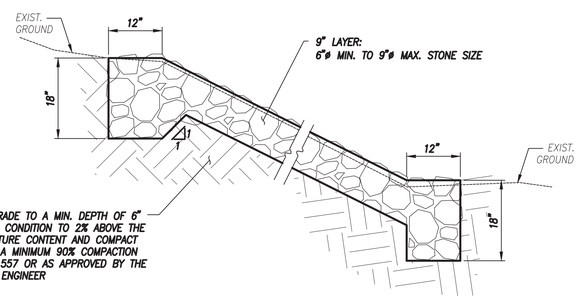
Trench Restoration Details

Not to Scale



Grouted Riprap Section

Not to Scale



9" GROUTED RIPRAP WALL

SCALE: 3/4"=1'–0"

ORIGINAL PLAN	NOTE BOOK	No.	SURVEY PLOTTED BY	DATE
			DRAWN BY	
			TRACED BY	
			DESIGNED BY	
			QUANTITIES BY	
			CHECKED BY	

STACY K. YOKOJI ARMSTRONG
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — APR 30, 2018 DATE OF LICENSE EXPIRY

DATE	REVISION
5/30/18	New Sheet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A–01–13

Scale: As Shown — Date: April 24, 2017

SHEET No. C4.1A OF 18 SHEETS

C.O. 11 S-2